|       |          |                |          |                         |         |  |               |              |               | 09/772,532<br>Examiner |          |                 |          |              |  |                 |          |          |              | ICHIMURA, YASUUMI<br>Art Unit |       |            |                 |          |          |           |              |          |         |              |   |
|-------|----------|----------------|----------|-------------------------|---------|--|---------------|--------------|---------------|------------------------|----------|-----------------|----------|--------------|--|-----------------|----------|----------|--------------|-------------------------------|-------|------------|-----------------|----------|----------|-----------|--------------|----------|---------|--------------|---|
|       |          |                |          |                         |         |  |               |              |               |                        |          |                 |          |              |  |                 | Fd       | war      | de           |                               |       |            |                 |          | 521      |           |              |          |         |              |   |
|       |          |                | _        |                         |         |  |               |              |               |                        |          |                 | <u></u>  | au           |  | <u> </u>        |          |          | <u> </u>     |                               |       |            |                 | ~ (      |          |           | -            |          |         |              |   |
|       |          | <b>4</b>       | 8        | Rejec                   | ted     |  | -             | -            | <b>(T</b>     | hrou<br>Ca             | igh r    | iume<br>Iled    | eral     | )            |  | N               | N        | on-E     | Ele          | ct                            | ed    |            | A               |          | Α        | pp        | eal          |          |         |              |   |
|       |          | =              |          | Allov                   | ved     |  | +             | -            |               | Re                     | stric    | cted            |          |              | :  | 1               | In       | terf     | ere          | ∍n                            | СӨ    |            | 0               |          | Ob       | jec       | te           | d        |         |              |   |
|       |          | <u>ب</u><br>لم | L<br>-   |                         |         | l<br>  | <u> </u>      | ļ .          | <b>]</b> :::: |                        |          | <u> </u>        |          |              | -  |                 | -        |          |              | r                             |       | -          |                 |          |          | _         |              |          |         |              | 1 |
| Cla   | aim<br>_ | 25.0           | Γ        |                         | Date    |  |               | Т.           | 1             | UI.                    | aim<br>— |                 | T        | Τ,           | Date   | •               | $\neg$   |          | -            | ŀ                             | Cla   | aim<br>—   |                 | Т        | . T      | T         | ate          | T        | Т       |              |   |
| Final | Original | 15 Feb.        |          |                         |         |  |               |              |               | Final                  | Original |                 |          |              |  |                 |          |          |              |                               | Final | Original   |                 |          |          |           |              |          |         |              |   |
|       |          | 1,2            | _        |                         |         |  | +             |              | -             |                        | 51       |                 | -        |              |  |                 |          | -        | -            | -                             |       | 101        | 169             | _        |          | -         | -            | -        | +       |              |   |
|       | 2        | 7 -            | -        | - 12 - 17               | 100     |  |               |              | ┨             | -                      | 52       |                 |          |              |  |                 |          |          | -            | ŀ                             |       | 102        | $\vdash$        | +        | +        | +         |              | $\dashv$ |         |              |   |
|       | 8        |                |          |                         |         |  |               |              |               |                        | 53       |                 |          |              |  |                 |          |          |              | t                             |       | 103        |                 |          |          | 士         |              |          |         |              | j |
| 1_    | 4)       | 111            |          |                         |         |  | $\perp$       |              | ]             |                        | 54       |                 |          | $oxed{\Box}$ |  |                 | $\Box$   |          | ]            |                               |       | 104        | Ш               |          | $\Box$   |           |              |          |         |              | ] |
| 2_    | 5        | ~              | L        | +                       | $\perp$ |  | $\bot$        | <del> </del> | 4             |                        | 55       | $\sqcup$        | -        |              |  |                 |          | -        | - ::         | -                             |       | 105        |                 |          | -        | +         | 4            | +        | +11+-   | 100          |   |
| 3-4   | 7        | 11             | ┝        | ++                      | +       | $\vdash$   | +             |              | 1             |                        | 56<br>57 |                 |          |              |  | $\vdash$        | -        | -        | -            | ŀ                             |       | 106<br>107 | ++              | +        | +        | +         | +            | -        | -       |              |   |
| /_    | 18       |                | $\vdash$ | $\dashv$                | +       | $\vdash$   | +             | +            | 1             |                        | 58       |                 | +        | +            |  |                 | -        | _        | 1            | ŀ                             |       | 108        | $  \cdot  $     | $\dashv$ | 十        | +         | $\dashv$     | +        | +       | +            | 1 |
| 50    | 9        | Ξ              |          |                         |         |  |               |              |               |                        | 59       |                 |          |              |  |                 |          |          |              | ľ                             |       | 109        |                 |          |          |           |              |          |         |              |   |
|       | 10       |                |          | $\downarrow \downarrow$ |         |  | ightharpoonup |              |               |                        | 60       |                 |          |              |  |                 |          |          |              |                               |       | 110        | П               |          | $\Box$   |           |              |          |         |              |   |
|       | 11       | 2.13           | L        |                         |         |  | -             | 71000        | -             |                        | 61       |                 |          |              |  |                 |          |          | 4            | -                             |       | 111        | Н               |          |          | -         |              |          | 1100    | -            |   |
|       | 12       |                | $\vdash$ | ++                      |         |  | +             | +            | -             |                        | 62<br>63 | $\vdash$        | +        | +            |  |                 | -        |          | -            | ŀ                             |       | 112<br>113 | $\vdash$        | _        | $\dashv$ | $\perp$   | $\dashv$     | +        |         |              |   |
|       | 14       |                | -        |                         |         |  | $\top$        |              | 1             | -                      | 64       |                 | $\dashv$ | +            |  | Н               | 寸        |          | 1::          | ŀ                             |       | 114        | Н               | ı        | $\dashv$ | $\dagger$ | $\dashv$     | +        | +       |              | 1 |
|       | 15       |                |          |                         |         |  |               |              | ]::::         |                        | 65       |                 |          |              |  |                 |          |          |              | Į                             |       | 115        |                 |          |          |           |              |          |         |              | ] |
|       | 16       |                |          |                         |         |  |               |              |               |                        | 66       |                 |          | _            |  |                 | $\perp$  | _        | _            |                               |       | 116        |                 | $\perp$  |          | $\perp$   | $\downarrow$ |          |         |              |   |
|       | 17       |                |          | n in the                | 10 10   |  | 149           |              | 4             |                        | 67       | $\vdash$        | $\perp$  | -            |  | Н               | $\dashv$ | _        | 4            | -                             |       | 117        | $\sqcup$        | 4        | +        | $\dashv$  | $\dashv$     | -        |         | +            | 1 |
|       | 18<br>19 |                | ┝        | $\dashv$                |         |  | +             |              | 1::::         |                        | 68<br>69 | $\vdash$        | +        |              |  | -               |          | +        | -            | ŀ                             |       | 118<br>119 | +               | $\dashv$ | -        | +         | $\dashv$     | +        |         | +            |   |
|       | 20       |                | H        | 1                       | $\top$  | $\vdash$   | $\top$        | $\top$       | 1             |                        | 70       |                 | +        |              |  |                 |          | $\top$   | ٦            | ŀ                             |       | 120        | $\Box$          | 寸        |          | $\top$    | 十            | $\dashv$ |         |              |   |
|       | 21       |                |          |                         |         |  |               | -            |               |                        | 71       |                 | 11       |              | TT   |                 | T. N     |          |              | Ī                             |       | 121        |                 |          | - 4      |           |              |          |         | 1            |   |
|       | 22       | ļ              | L        | $\perp$                 |         | $oxed{oxed}$                                     |               | $\perp$      | <b>.</b>      |                        | 72       | $\sqcup$        | $\perp$  | 1            |  | Ш               | _        | _        | _            |                               |       | 122        | $\sqcup$        | _        | _        | _         | _            |          |         |              |   |
|       | 23<br>24 |                | L        | $\dashv$                | $\perp$ | $\vdash$   | +             | +            | -             |                        | 73<br>74 | ╁               |          | +            | ļ  |                 | $\dashv$ | $\dashv$ | -            |                               |       | 123<br>124 | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$     | $\dashv$ |         |              | - |
|       | 25       |                | H        | +                       |         | $\vdash$   | +             | <u> </u>     | 1             |                        | 75       |                 | $\dashv$ | ╁            | $\vdash$   |                 | -        | +        | -            | ŀ                             |       | 125        |                 | ┪        |          | $\dashv$  | $\dashv$     | $\dashv$ | +       | +            | 1 |
|       | 26       |                |          | 11                      |         |  | $\top$        |              | 1             |                        | 76       |                 | $\top$   | 1            |  |                 |          |          | _            |                               |       | 126        |                 | T        |          | 1         |              |          |         |              | ] |
|       | 27       |                |          |                         |         |  |               |              | ]             |                        | 77       |                 |          |              |  |                 |          |          |              |                               |       | 127        |                 |          |          |           |              |          |         |              | ] |
|       | 28       | _              | L        | +                       |         | $\vdash \vdash$                                  | 4             | +            | -             | -                      | 78       | $\vdash$        | -        | 1            | _  | $ \!\!-\!\!\! $ |          | _        | _::          | -                             |       | 128        |                 | 4        | _        | _         | _            |          | +       | <b></b>      | ļ |
|       | 29<br>30 |                | H        | ++                      |         | $\vdash$   | +             | +            | -             |                        | 79<br>80 | $\vdash$        | ╁        |              |  | $\vdash$        | $\dashv$ | +        | -            |                               |       | 129<br>130 | $\vdash$        | -        | $\dashv$ | -         | $\dashv$     | $\dashv$ | ╁       | +            | 1 |
|       | 31       |                | H        | ++                      |         |  | +             | +            | 1             |                        | 81       | $\Box$          | +        | +            |  | -               | $\dashv$ | $\dashv$ | $\dashv$     | ŀ                             |       | 131        | +               | $\dashv$ | $\dashv$ | $\dashv$  | +            | +        | +       | +            | 1 |
|       | 32       |                |          |                         |         | 77141  |               |              | ]             |                        | 82       |                 |          |              |  |                 |          |          |              |                               |       | 132        |                 |          |          |           |              |          |         |              | ] |
|       | 33       |                |          |                         |         |  |               |              | ]             |                        | 83       | $\prod$         |          |              |  |                 | $\Box$   |          |              |                               |       | 133        |                 |          |          |           | $\Box$       | $\Box$   | T       |              | ] |
|       | 34       |                | _        |                         |         | $\vdash$   | +             | -            | <b>-</b>      |                        | 84       | $\vdash \vdash$ | +        | -            |  | -               | _        | -        | -            |                               |       | 134        |                 | _        | 4        | _         | -            | +        | +       | 4-           | - |
|       | 35<br>36 | $\vdash$       | ├        | +                       |         | -  | +             | +            | ┨┈            | -                      | 85<br>86 | $\vdash$        | +        | +            | $\vdash$   | $\vdash \vdash$ | $\dashv$ | +        | -            | ŀ                             |       | 135<br>136 | +               | $\dashv$ | $\dashv$ | $\dashv$  | -            | -        | +       | +            | { |
|       | 37       |                | $\vdash$ | +                       |         |  | +             | +            | 1:::          |                        | 87       | $\vdash$        | +        | +            |  | $  \cdot  $     | +        | +        | <b>-</b>  :: | ŀ                             |       | 137        |                 | $\dashv$ | $\dashv$ | $\dagger$ | +            | +        | +       | +            | 1 |
|       | 38       |                |          |                         |         |  |               | 工            | ]             |                        | 88       |                 | 工        |              |  |                 |          |          |              | ľ                             |       | 138        |                 |          |          | 丁         |              | 丁        |         |              | ] |
|       | 39       |                |          | $\perp T$               |         |  |               | $\bot$       | <u> </u>      |                        | 89       |                 |          |              |  |                 | $\Box$   | $\bot$   |              |                               |       | 139        | $\prod$         | $\bot$   | $\Box$   | $\bot$    | $\perp$      |          | $\perp$ |              | ] |
|       | 40       |                | $\vdash$ |                         | -       | -  | -             | +            | -             | -                      | 90       | $\vdash \vdash$ | +        | +            |  | $\square$       | _        | -        | -            |                               | _     | 140        | ┼┼              | _        | $\dashv$ | $\dashv$  | $\perp$      | +        | -       |              | { |
| _     | 41       | -              | -        |                         |         | $\vdash$   | +             | +            | <b>-</b>      |                        | 91<br>92 | ++              | +        | +            | $\vdash$   | ╂╾┤             |          |          | $\dashv$     | -                             |       | 141<br>142 | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$  | +            | +        | +       | +            | { |
|       | 43       |                | $\vdash$ | ++                      | +       | $\vdash$   | +             | +            | 1             | -                      | 93       |                 | +        | +            |  | ╁╌┤             | -        | +        | ┥.           |                               |       | 143        | +-+             | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$     | $\dashv$ | +       | +            | 1 |
|       | 44       |                |          |                         |         |  | 丁             |              | ]:::          |                        | 94       |                 |          |              |  |                 |          |          |              |                               |       | 144        |                 |          |          |           | _            |          | 丁       |              | 1 |
|       | 45       |                |          | $\bot \top$             |         |  | $\perp$       |              | ]::::         |                        | 95       | $\Box$          | $\bot$   |              |  | П               | $\Box$   | T        | _]::         |                               |       | 145        | П               |          | $\Box$   | $\Box$    |              | $\Box$   | Ţ       | $oxed{\Box}$ |   |
|       | 46       | _              | $\vdash$ |                         |         | $\vdash \vdash$                                  | _             | _            | -             |                        | 96       |                 | +        | +            | -  | $\vdash$        |          | _        | -            |                               |       | 146        | $\vdash$        | _        | 4        | _         | 4            | $\dashv$ | - -     | +            | 4 |
|       | 47       | $\vdash$       | $\vdash$ | +                       |         | <del>                                     </del> | +             | +            | -             |                        | 97<br>98 | ++              | +        | +            | -  | ┼╌┤             |          | +        | - :          |                               |       | 147<br>148 | ╁╌┼             | -        | +        | $\dashv$  | +            | +        | +       | +            | - |
|       | 49       |                | $\vdash$ | ++                      | _       |  | +             | +            | 1             |                        | 99       | 1-1-            | $\top$   | $\dagger$    | <del>                                     </del> |                 | $\dashv$ | +        | $\dashv$     | ŀ                             |       | 149        | H               | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$     | $\dashv$ | +       | +-           | 1 |
|       | 50       | Π              | Γ        | _                       |         |  | $\top$        | 1            | ]!!!          |                        | 100      |                 | _        | 1            |  | П               | 一        | 十        | 7            |                               |       | 150        | 1 1             | 7        | $\dashv$ | 十         | 7            | $\top$   | $\top$  | †            | 1 |

Application No.

Index of Claims

Applicant(s)